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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/909,348	07/19/2001	Darrell H. Carney	3033.1003-001	3248
21005	7590 06/03/2003			
HAMILTON, BROOK, SMITH & REYNOLDS, P.C. 530 VIRGINIA ROAD P.O. BOX 9133 CONCORD, MA 01742-9133			EXAMINER	
			ROBINSON, HOPE A	
CONCORD, N	1 01/42-9133		ARTUNIT	PAPER NUMBER
			1653	
·		•	DATE MAILED: 06/03/2003	(Z)

Please find below and/or attached an Office communication concerning this application or proceeding.

•		Application No.	Applica	nt(s)			
		09/909,348	CARNE	Y ET AL.			
Office Action Summ	nary	Examiner	Art Unit				
		Hope A. Robinso					
The MAILING DATE of this				dence address			
Period for Reply							
A SHORTENED STATUTORY PE THE MAILING DATE OF THIS CO - Extensions of time may be available under th after SIX (6) MONTHS from the mailing date - If the period for reply specified above is less to - If NO period for reply is specified above, the reply reply within the set or extended per - Any reply received by the Office later than the earned patent term adjustment. See 37 CFR Status	DMMUNICATION. e provisions of 37 CFR 1.136i of this communication. than thirty (30) days, a reply w maximum statutory period will iod for reply will, by statute, c ee months after the mailing de	(a). In no event, howeverthin the statutory mining apply and will expire Sause the application to	er, may a reply be timely filed num of thirty (30) days will be con X (6) MONTHS from the mailing of Decome ABANDONED (35 U.S.C	sidered timely. date of this communication § 133).			
1) Responsive to communica	tion(s) filed on 25 Jul	<u>ly 2002</u> .					
2a) This action is FINAL .	2b)⊠ This	action is non-fin	al.				
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Disposition of Claims							
4)⊠ Claim(s) <u>1-21</u> is/are pendin	-						
4a) Of the above claim(s) is/are withdrawn from consideration.							
5) Claim(s) is/are allow	ed.						
6) Claim(s) <u>1-21</u> is/are rejected	d.						
7) Claim(s) <u>7-19</u> is/are objecte	ed to.						
8) Claim(s) are subject	to restriction and/or	election requiren	nent.				
Application Papers							
9) The specification is objected	•		ta le de la Francisco				
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.							
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
11) The proposed drawing correction filed on is: a) approved b) disapproved by the Examiner.							
If approved, corrected drawings are required in reply to this Office action. 12) The oath or declaration is objected to by the Examiner.							
Pri rity under 35 U.S.C. §§ 119 and 120							
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).							
a) All b) Some * c) None of:							
1. Certified copies of the priority documents have been received.							
_	2. Certified copies of the priority documents have been received in Application No						
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 							
14)⊠ Acknowledgment is made of	a claim for domestic	priority under 35	U.S.C. § 119(e) (to a pi	rovisional application).			
a) ☐ The translation of the fo				l 2 1.			
Attachment(s)		. •	•				
Notice of References Cited (PTO-892) Notice of Draftsperson's Patent Drawing Information Disclosure Statement(s) (PT		5) 🔲	Interview Summary (PTO-413 Notice of Informal Patent Appl Other:				
J.S. Patent and Trademark Office PTO-326 (Rev. 04-01)	Office Acti	n Summary	Part of F	Paper No. 6			



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DETAILED ACTION

Claim Objection

1. Claims 7-19 are objected to because the claims do not recite the proper notation, see for example, "SEQ ID NO.1", which should be "SEQ ID NO: 1".

Correction is required.

Basis For Statutory Double Patenting

2. A rejection based on double patenting of the "same invention" type finds its support in the language of 35 U.S.C. 101 which states that "whoever invents or discovers any new and useful process ... may obtain a patent therefor ..." (Emphasis added). Thus, the term "same invention," in this context, means an invention drawn to identical subject matter. See *Miller v. Eagle Mfg. Co.*, 151 U.S. 186 (1894); *In re Ockert*, 245 F.2d 467, 114 USPQ 330 (CCPA 1957); and *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970).

A statutory type (35 U.S.C. 101) double patenting rejection can be overcome by canceling or amending the conflicting claims so they are no longer coextensive in scope. The filing of a terminal disclaimer <u>cannot</u> overcome a double patenting rejection based upon 35 U.S.C. 101.

3. Claims 1-4 are provisionally rejected under 35 U.S.C. 101 as claiming the same invention as that of Claims 1-4 of copending Application No. 10/050,688. Claims 1-4 in the instant application and claim 1-4 in the copending application have the same



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language, scope, wording and subject matter. This is a <u>provisional</u> double patenting rejection since the conflicting claims have not in fact been patented.

Basis For NonStatutory Double Patenting

4. The nonstatutory double patenting rejection is based on a judicially created doctrine grounded in public policy (a policy reflected in the statute) so as to prevent the unjustified or improper timewise extension of the "right to exclude" granted by a patent and to prevent possible harassment by multiple assignees. See *In re Goodman*, 11 F.3d 1046, 29 USPQ2d 2010 (Fed. Cir. 1993); *In re Longi*, 759 F.2d 887, 225 USPQ 645 (Fed. Cir. 1985); *In re Van Ornum*, 686 F.2d 937, 214 USPQ 761 (CCPA 1982); *In re Vogel*, 422 F.2d 438, 164 USPQ 619 (CCPA 1970);and, *In re Thorington*, 418 F.2d 528, 163 USPQ 644 (CCPA 1969).

A timely filed terminal disclaimer in compliance with 37 CFR 1.321(c) may be used to overcome an actual or provisional rejection based on a nonstatutory double patenting ground provided the conflicting application or patent is shown to be commonly owned with this application. See 37 CFR 1.130(b).

Effective January 1, 1994, a registered attorney or agent of record may sign a terminal disclaimer. A terminal disclaimer signed by the assignee must fully comply with 37 CFR 3.73(b).

5. Claims 1-21 are provisionally rejected under the judicially created doctrine of obviousness-type double patenting as being unpatentable over claims 1-13 and 17-24 of copending Application No. 10/050,688. Although the conflicting claims are not



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identical, they are not patentably distinct from each other because the claims are directed to a method of stimulating cartilage growth or repair via an agonist (thrombin peptide derivative) which has the structure set forth in SEQ ID NOS: 1-5 as recited in both applications. Claim 5 of the copending application recites derivatives and functional equivalents thereof which is the only difference between the two sets of claims

Therefore, the disclosure in the copending application makes obvious the claimed invention in the instant application. Although the scope of the claims herein differs, the two sets of claims are directed to similar inventions since the language in the claim is similar. Thus, the instant application claim is an obvious variation of the copending application claim.

This is a <u>provisional</u> obviousness-type double patenting rejection because the conflicting claims have not in fact been patented.

Claim Rejections - 35 U.S.C. § 103

The following is a quotation of 35 U.S.C. 103 (a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains.

Patentability shall not be negatived by the manner in which the invention was made.



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- 6. This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103 (a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103 (c) and potential 35 U.S.C. 102 (f) or (g) prior art under 35 U.S.C. 103 (a).
- 7. Claims 1-4 are rejected under 35 U.S.C. 103 (a) as being unpatentable over Stiernberg et al. (Wound Repair and Regeneration, vol. 8, no. 3, pages 204-215, May-June 2000) in view of Crowther et al. (Distributed at Texas Mineralized Tissue Society, Austin, Texas, August 1998).

Stiernberg et al. teach that non-proteolytic interaction of thrombin or TP508 (agonist of NPAR, see page 2 of the instant specification) stimulates or activates fibroblasts and is involved in initiation of tissue repair following injury (claims 1, 3 and 4, pages 204-205). Although Stiernberg et al. do not explicitly teach the stimulation of cartilage growth, the reference teaches the compound that produces the claimed effect and demonstrates the ability of the compound to produce the same effect in other tissues and cells such as endothelial, epithelial and fibroblast cells. Stiernberg et al. teach on page 214 that TP508 accelerates tissue repair with a single application at the



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time of injury. In-so-far-as Stiernberg et al. does not expressly teach repair at a joint (claim 2), Crowther et al. teach that TP508 can accelerate bone repair (page 5).

Therefore, it would have been obvious to one of ordinary skill in the art to have designed a method of stimulating cartilage growth or repair as set forth in the claimed invention with a reasonably expectation of success because Stiernberg et al. teach that non-proteolytic interaction of thrombin or TP508 (agonist of NPAR) stimulates or activates fibroblasts, endothelial, and epithelial cells and initiates wound healing following injury and Crowther et al. teach the acceleration of bone repair with TP508. One of ordinary skill in the art would be motivated to combine the teachings of the references because both references use TP508 (agonist of NPAR) and Stiernberg et al. teach that a single application of TP508 is effective in accelerating tissue repair at the time of injury not evidenced by the application of growth factors. Thus, the claimed invention was obvious to make and use at the time it was made and was *prima facie* obvious.

Conclusion

8. No claims are allowable.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Hope Robinson whose telephone number is (703) 308-



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6231. The examiner can normally be reached on Monday-Friday from 9:00 am to 5:30 pm (EST).

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Christopher S. F. Low, can be reached at (703) 308-2923.

Any inquiries of a general nature relating to this application should be directed to the Group Receptionist whose telephone number is (703) 308-0196.

Papers related to this application may be submitted by facsimile transmission. The official fax phone number for Technology Center 1600 is (703) 308-4242. Please affix the examiner's name on a cover sheet attached to your communication should you choose to fax your response. The faxing of such papers must conform with the notice published in the Official Gazette, 1096 OG (November 15, 1989).

Hope Robinson, M

Patent Examiner

CHRISTOPHER S. F. LOW SUPERVISORY PATENT EXAMINER TECHNOLOGY CENTER 1800